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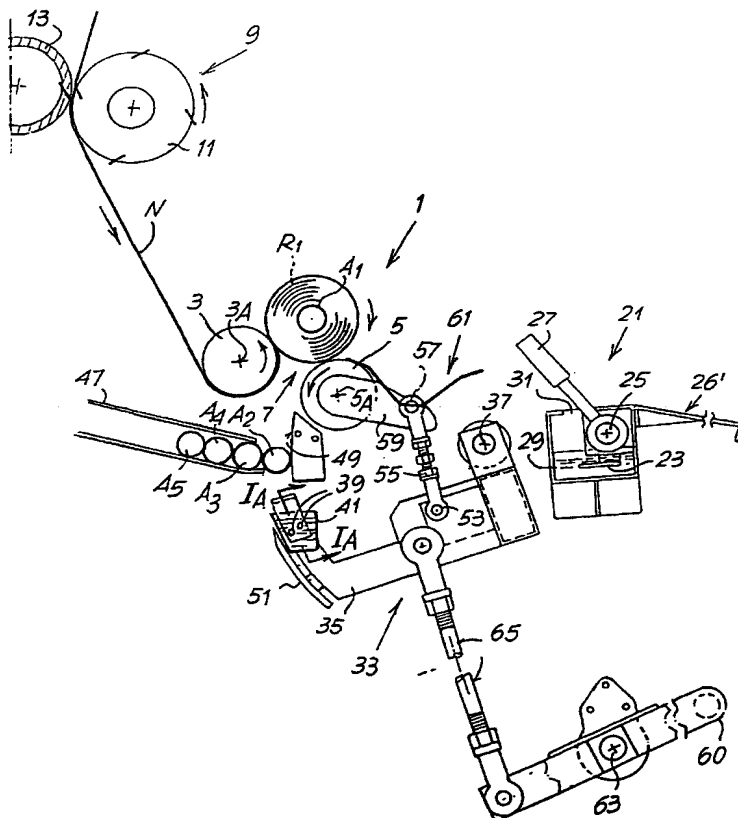
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(54) Title: REWINDER MACHINE FOR THE PRODUCTION OF ROLLS OF WEB MATERIAL



(57) Abstract: The rewinder machine comprises: a first winding roller (3); a second winding roller (5), defining with said first winding roller (3) a winding cradle; a feeder (33) for sequentially introducing winding cores to said winding cradle; an optional glue applicator (21) for applying glue to said cores. The feeder (33) may include an element (39) for applying glue to the winding cores while they are being fed to said winding cradle. In a special embodiment, the feeder is mechanically linked to a system for unloading the roll from the winding cradle.

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IT 03/00785

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B65H19/22 B65H19/30 B65H19/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 544 701 A (PAPER CONVERTING MACHINE CO) 26 October 1984 (1984-10-26) page 17, line 12 - page 21, line 26; claim 11; figures	1, 43
A	US 6 422 501 B1 (DAUL THOMAS J ET AL) 23 July 2002 (2002-07-23) the whole document	
A	EP 0 395 593 A (PERINI NAVI SPA) 31 October 1990 (1990-10-31) the whole document	
A	US 5 772 149 A (BUTTERWORTH TAD T) 30 June 1998 (1998-06-30) column 3, line 59 - column 4, line 45; claims; figures	32-42, 46

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Application No
PCT/IT 03/00785

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 97/32804 A (PERINI FABIO SPA ; BIAGIOTTI GUGLIELMO (IT)) 12 September 1997 (1997-09-12) cited in the application</p>	47-50

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IT 03/00785

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-31, 43-45

Rewinder machine for the production of rolls of web material having a feeder which includes at least one element for applying glue to the winding cores during their introduction to the winding cradle and method thereof.

2. claims: 32-42, 46

A rewinder machine having an extractor member for extracting a roll formed in the winding cradle, the extractor member being mechanically linked to the feeder that sequentially introduces winding cores into the winding cradle and method thereof.

3. claim: 47

A rewinder machine having a feeder for sequentially introducing winding cores to the winding cradle, a gluer for gluing the free end edge of rolls made by said machine and a common actuator member that controls the movement of feeder and gluer.

4. claims: 48-49, 50

A rewinding machine comprising only two winding rollers forming a winding cradle, the winding rollers being kept into rotation during discharge of a completed roll and inserting of a new winding core and method thereof.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IT 03/00785

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